

Claims

1. A foot-propelled, wheeled hobby and/or sport device that has a foot plate **characterised by** that

- it has a wheel (1) positioned between two side plates (7, 8) the axle (3) of which wheel (1) is fixed to the side plates (7, 8);
- positioned under the wheel (1) axle (3) there are foot plates (9, 10) extending outwards connected to the side plates (7, 8);
- during the normal use of the device the side plates (7, 8) extend above the knee (21) of the person using the device, who is standing on either one or both of the foot plates (9, 10).

2. The hobby and/or sport device according to claim 1 **characterised by** that the side plates (7, 8) are fixed together as a yoke (4, 4a) via a connection rib (14) or ribs (18, 19) running along their edges.

3. The hobby and/or sport device according to claim 1 or 2 **characterised by** that the ends of the wheel (1) axle (3) are fixed into the thickened plate parts (7a, 8a) of the side plates (7, 8), in a practical case fitted into them.

4. The hobby and/or sport device according to any of claims 1-3 **characterised by** that the foot plates (9, 10) are positioned at a maximum distance (c) from the axle (3) of the wheel (1) ensuring perfect function of the device practically at a distance (m) from ground level (t) in the operating position of the device that makes function possible, advantageously at the same level.

5. The hobby and/or sport device according to any of claims 1–4 **characterised by** that the side plates (7, 8) are circular plates of a form and size that essentially conforms to that of the form of the wheel, and the curved, convex, as seen from the outside, connection rib (14) runs without interruption along the edges of the side plates (7, 8) – except for an opening (11) allowing the wheel rim (2a) to protrude.
6. The hobby and/or sport device according to any of claims 1–4 **characterised by** that the side plates (7, 8) are formed so that they only partly cover from the side of the wheel (1), advantageously in such a way that in the vicinity of the wheel (1) axle (3) their width is the smallest, and from this range their width increases downwards and upwards.
7. The hobby and/or sport device according to any of claims 1–6 **characterised by** that it has a bearing housing (6) surrounding the axle (3) and a wheel rim (2a) with a rubber pneumatic tyre (2), which wheel rim (2a) is connected to the bearing housing (6) by spokes (5).
8. The hobby and/or sport device according to any of claims 1–7 **characterised by** that the device has handlebars (13) that are directly or indirectly connected to the side plates (7, 8).
9. The hobby and/or sport device according to any of claims 1–8 **characterised by** that at the height of the shins of the person using the device (15) there is a supporting plate (12) fixed to each of the side plates (7, 8), parallel to the axle (3).
10. A foot-propelled, wheeled hobby and/or sport device that has a foot plate **characterised by** that

- it has two parallel wheels (31, 32) separated by a distance (n), positioned displaced from one another in side view, which are connected to each other by a connection element (33) that prevents movement in the longitudinal direction with respect to one another, but permits rotation as compared to one another;
- the bearing housings (47, 48) of the axles (45, 46) of the wheels (31, 32) protrude from the plane of the wheels (31, 32), and supporters are fixed to these protruding bearing housing parts;
- foot plates (36, 37) are fixed to the lower parts of the supporters, and above these there are side plates (40) fixed to the supporters extending above the knees of the user while the device is in use.

11. The hobby and/or sport device according to claim 10 **characterised by** that it has an upside-down V shaped, from side view, Z shaped, from above, connection element (33) with displaced curved legs (49a) connected to one another with a connection rib (49b) falling in the plane of the wheels (31, 32) and, in a practical case, horizontal from above, from the lower end of each of the legs (49a) there is a vertical pin (38, 39) protruding downwards; and these pins (38, 39) fit into bearings (52, 53) fixed into the part of the bearings (47, 48) of the wheel axles (45, 46) that protrude inwards from the wheel plane.

12. The hobby and/or sport device according to claim 10 or 11 **characterised by** that it has curved supporters (34, 35) which extend above to the upper range of the wheels (31, 32).

13. The hobby and/or sport device according to any of claims 10–12 **characterised by** that the wheels (31, 32) are displaced with respect to one another to an extent that the contour line of the one wheel (31, 32) is positioned in the vicinity of the axle (45, 46) of the other wheel, in a practical case with a separation (l) equivalent to 1-5% of the diameter of the wheel.
14. The hobby and/or sport device according to any of claims 10–13 **characterised by** that the wheels (31, 32) are braced to each other with one or more springs (50, 51) – so that they may rotate from each other contrary to the spring force; and the device has blocks (54, 55; 56, 57) preventing the wheels (31, 32) that have been pushed back into their basic position by the spring or springs (50, 51) from touching one another.
15. The hobby and/or sport device according to claim 14 **characterised by** that the springs (50, 51) are positioned on the lower and upper part of the device, in a practical case the upper edges of the side plates (40) are connected with two springs (50), and at least one spring (51) is inserted between the foot plates (36, 37).
16. The hobby and/or sport device according to claim 14 or 15 **characterised by** that there are blocks (54, 55) on the inner side of the lower ends of the connection element (30) legs (49a); and there are blocks (56, 57) on the outer sides of the bearings (52, 53) receiving the vertical pins (38, 39).
17. An auxiliary device for the reduction of the friction between the knee of the person using the device according to any of claims 1–16 and the side plates (7, 8) **characterised by** that there is a cart-like structure that may be fixed to the

knee (21) of the person using the device (15) with a releasable connection, into which there are protruding rollers (25) embedded in the side (24) turned towards the side plate (7, 8) and the side (23) opposite this side is a surface curved to match the shape of the knee (21).

18. The auxiliary device according to claim 17 **characterised by** that in side view the cart-like structure has a rectangular – in a given case with rounded corners – base (22), in the corner vicinities of which there are hollows (26) formed in the plane surface (24) and into these hollows (26) the axles (z) of the rollers (25) are fitted, and the opposite side (23) is curved in shape.

19. The auxiliary device according to claim 17 or 18 **characterised by** that the rollers (25) protrude 1-3 mm out of the, preferably, plane surface (24) turned towards the side plate (7, 8).

20. The auxiliary device according to any of claims 17-19 **characterised by** that the cart-like structure has brace(s) (27) consisting of hook and loop (28) brace-parts (27a).